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DOT	For r	receiving Office use only		
PCT				
<u>.</u>	International Application No.			
REQUEST				
KEQ OLO I	International Filing Date			
0_				
The undersigned requests that the present international application be processed				
international application be processed according to the Patent Cooperation Treaty. Name of receiving Office and "PCT International Application"				
	Applicant's or agent's f (if desired) (12 characte			
Box No. 1 TITLE OF INVENTION				
Mouse Model for Autoimmune Disorders				
Box No. II APPLICANT This person	on is also inventor			
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residen	ine aaaress inaicaiea in inis 🛭	Telephone No. 215-898-0049		
		Facsimile No.		
The Wistar Institute of Anatomy and Biolo	yyy	215-573-2456		
3601 Spruce Street Philadelphia, Pennsylvania 19104 US		Teleprinter No.		
		Applicant's registration No. with the Office		
State (that is, country) of nationality: US	State (that is, country) US	of residence:		
This person is applicant all designated all designated		the United States of America only the States indicated in the Supplemental Box		
Box No. III FURTHER APPLICANT(S) AND/OR (FURT				
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of reside	ntity, full official designation. The address indicated in this	This person is: applicant only		
		applicant and inventor		
Caton, Andrew J.	inventor only (If this check-box			
5 Chestnut Avenue Narberth, Pennsylvania 19072 US	•	is marked, do not fill in below.)		
Naiberti, i emisyivama 13072 30		Applicant's registration No. with the Office		
State (that is, country) of nationality: US	State (that is, country,) of residence:		
This person is applicant all designated all designated	tted States except States of America	the United States of America only the States indicated in the Supplemental Box		
Further applicants and/or (further) inventors are indicated	on a continuation sheet.			
Box No. IV AGENT OR COMMON REPRESENTATIVE	E; OR ADDRESS FOR	R CORRESPONDENCE		
The person identified below is hereby/has been appointed to acof the applicant(s) before the competent International Authoriti	es as:	agent common representative		
Name and address: (Family name followed by given name; for a legal e The address must include postal code and name o	ntity, full official designation. f country.)	Telephone No. 215-540-9200		
Bak, Mary E.	Facsimile No.			
Howson and Howson	215-540-5818			
Spring House Corporate Center P.O. Box 457		Teleprinter No.		
Spring House, Pennsylvania 19477 US	Agent's registration No. with the Office			
Address for correspondence: Mark this check-box who	ere no agent or common re	31,215		
Address for correspondence: Mark this check-box who space above is used instead to indicate a special address	to which correspondence	should be sent.		

Box No. V	DESIGNATION OF STATES	Mark the applicable check-boxes below; at least one must be marked.	-
The followi	ng designations are hereby made un	ler Rule 4.9(a):	
Regional l	Patent		1
		Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan,	
		Land DV Delegge LC Kyrovzstan KZ Kazaknsjan, MD Rebublic of Moldova,	- 1
LI EA E	urasian Patent: Alvi Armenia, AL	TM Turkmenistan, and any other State which is a Contracting State of the Eurasian	
R	W Russian Federation, 13 Tajikista	, Itt I dikinomban, and any	1
P	atent Convention and of the PCT	DGB Jamie CU & LI Switzerland and Liechtenstein CV Cyprus, CZ Czech	1
EP E	uropean Patent: AT Austria, BE B	elgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech k, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece,	Į.
R	Lepublic, DE Germany, DK Denmar	K, EE ESTONIA, ES Spain, FT Inlands, PT Portugal, SE Sweden, SI Slovenia, SK Slovakia, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, SI Slovenia, SK Slovakia,	ļ
11	E Ireland, IT Italy, LU Luxembourg	is a Contracting State of the European Patent Convention and of the PCT	l
т	'R Turkey, and any other State which	is a Contracting State of the European Falcin Contract of Typing CM Cameroon	1.
OAC	API Patent: BF Burkina Faso, B.	Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon,	1
1	GA Gabon, GN Guinea, GQ Equato	Benin, CF Central Artical Republic, Color Solid Mauritania, NE Niger, SN Senegal, rial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, rial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, rial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, rial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, rial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, rial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, rial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, rial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, rial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, rial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, rial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, rial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, rial Guinea, GW Guinea-Bissau, GW	,
0	f protection or treatment desired, sp	cify on dotted line)	-
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National	Patent (if other kind of protection of	r treatment desired, specify on dotted line): CM Gambia NZ New Zealand	. 1
AE U	nited Arab Emirates [HR Croatia OM Oman	-
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Doki	Denmark	☐ MA Morocco ☐ UG Uganda	
☐ DM I	Dominica	MD Republic of Moldova	
DZ A	Algeria		
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	Finland	MN Mongolia	• •
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	United Kingdom	☐ MX Mexico ☐ ZA South Africa	
GD	Grenada		
∐ GE (Georgia		
	Ghana	- No Norway	
	to the second for designating	States which have become party to the PCT after issuance of this sheet:	
- □			
│ □	<u> </u>	1	211
- Precaut	ionary Designation Statement: In	addition to the designations made above, the applicant also makes under Rule 4.9(b)	all
exclude	d from the scope of this statement. The	e applicant declares that those additional designations are subject to confirmation and to	nal the
any desi	gnation which is not confirmed befo	e applicant declares in a those additional confirmation of the expiration of 15 months from the priority date is to be regarded as withdrawn by	iiiC
applicar	nt at the expiration of that time limit.	e the expiration of 13 months from the priority (Confirmation (including fees) must reach the receiving Office within the 15-month time lin	/

Supplemental Box

If the Supplemental Box is not used, this sheet should not be included in the request.

- If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No..." (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:
- (i) if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- (ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. III" or "Continuation of Box No. III and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. II" or "Continuation of Box No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
- (iv) if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- (v) if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
- (vi) if, in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
- 2. If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

"Continuation of Box No. IV"

Stanley B. Kita, Reg. No. 24,561 George A. Smith, Jr., Reg. No. 24,442 Cathy A. Kodroff, Reg. 33,980 William Bak, Reg. No. 37,277 Tracy U. Palovich, Reg. No. 47,840 (patent agent)

Above attorneys are members of the firm of Howson and Howson Spring House Corporate Center P.O. Box 457 Spring House, Pennsylvania 19477 US

Sheet	Nο		.4	
SHEEL	110.	٠	. 1	

Box No. VI PRIORITY	CLAIM				
The priority of the following	earlier application(s) is here	by claimed:			
Filing date Number		V	Where earlier application	T	
of earlier application . (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office	
item (1) 30 October 2002	60/422,389	US	*		
item (2)					
item (3)					
item (4)					
item (5)					
l —	are indicated in the Supplem		<u> </u>		
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as: all items item (1) item (2) item (3) item (4) item (5) other, see Supplemental Box * Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):					
Box No. VII INTERNATIONAL SEARCHING AUTHORITY Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used): ISA / US Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority): Date (day/month/year) Number Country (or regional Office)					
Box No. VIII DECLARATIONS					
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration): Number of declarations					
Box No. VIII (i)	Declaration as to the iden	tity of the inventor		:	
Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent :					
Box No. VIII (iii)	Box No. VIII (iii) Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application :				
Box No. VIII (iv)	Declaration of inventors United States of Americ	ntorship (only for the purposes of the designation of the serica)			
Box No. VIII (v) Declaration as to non-prejudicial disclosures or exceptions to lack of novelty:					

heet	No		5

Box No. IX CHECK LIST; LANGUAGE OF FILING						
This international application contains: (a) in paper form, the following number of	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items				
sheets:	1. X fee calculation sheet	: 1				
request (including declaration sheets) : 5	2. ☐ original separate power of attorney	:				
description (excluding	3. original general power of attorney	. :				
sequence listings and/or tables related thereto) : 43	4. X copy of general power of attorney; reference number,	. 4				
claims : 8	if any:	1				
abstract : 1	 5. statement explaining lack of signature 6. priority document(s) identified in Box No. VI as 	•				
drawings : 10	item(s):	:				
Sub-total number of sheets: 67 sequence listings: 1	7. Translation of international application into (language):					
tables related thereto : (for both, actual number of	8. separate indications concerning deposited microorganism or other biological material	• :				
sheets if filed in paper form, whether or not also filed in	9. Sequence listings in computer readable form (indicate type and number of carriers)					
computer readable form; see (c) below)	(i) copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international appliance)	ication):				
Total number of sheets : 68	(ii) (only where check-box (b)(i) or (c)(i) is marked in left column additional copies including, where applicable, the copy purposes of international search under Rule 13ter	nn) for the :				
(Section 801(a)(i)) (i) ☐ sequence listings	(iii) Lating together with relevant statement as to the identity of the copies with the sequence listings mentioned in left column	сору ог				
(ii) ☐ tables related thereto (c) ☑ also in computer readable form	10. tables in computer readable form related to sequence listing (indicate type and number of carriers)					
(Section 801(a)(ii)) (i) Sequence listings	(i) copy submitted for the purposes of international search a Section 802(b-quater) only (and not as part of the intern	under ational				
(ii) tables related thereto	Section 802(b-quater) only (and not as part of the intern application) (ii) \(\sum \) (only where check-box (b)(ii) or (c)(ii) is marked in left column (iii) \(\sum \) (only where check-box (b)(iii) or (c)(iii) is marked in left column (iii) \(\sum \) (only where check-box (b)(iii) or (c)(iii) is marked in left column (iii) \(\sum \) (iii) (iii) (iiii) (iiiiiiiiiiiiiiii	:				
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☐ tables related thereto:	copies with the tables mentioned in left column 11. other (specify): transmittal letter to the USRO	: 1				
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	11. 22 Onic (specify). The transfer of the tra	···· · ·				
Figure of the drawings which should accompany the abstract:	Language of filing of the English international application:					
BOY NO Y SIGNATURE OF APPLICANT	T, AGENT OR COMMON REPRESENTATIVE	reading the remark				
Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request). By: &						
	For receiving Office use only					
Date of actual receipt of the purported international application:	2.	Drawings: received:				
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:						
Date of timely receipt of the required corrections under PCT Article 11(2):		not received:				
5. International Searching Authority (if two or more are competent): ISA /	6. Transmittal of search copy delayed until search fee is paid					
	For International Bureau use only					
Date of receipt of the record copy by the International Bureau:	·					